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BEM	f: Botvinnik et al.				
ation No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
74,579	February 9, 2004	Richard L. Chiesa	29190	1724	9762
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#### AN OF INFORMATION DISCLOSURE STATEMENT Docket No. JAN 0 9 2006 (Under 37 CFR 1.97(b) or 1.97(c)) 112440-714 Botvinnik et al. Application No. Filing Date Examiner Customer No. Group Art Unit Confirmation No. 10/774,579 February 9, 2004 Richard L. Chiesa 29190 1724 9762 Title: ELECTROSTATIC PRECIPITATORS WITH INSULATED DRIVER ELECTRODES Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. ☑ The Director is hereby authorized to charge and credit Deposit Account No. 02-1818 as described below. Charge the amount of $\boxtimes$ Credit any overpayment. Charge any additional fee required. □ Payment by credit card. Form PTO-2038 is attached. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. Certificate of Mailing by First Class Mail Certificate of Transmission by Facsimile\* I hereby certify that this correspondence is being deposited t certify that this document and authorization to charge deposit with the United States Postal Service with sufficient postage account is being facsimile transmitted to the United States as first class mail in an envelope addressed to Patent and Trademark Office (Fa "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on January 4, 2006 (Date) (Date) Signature Signature of Person Mailing Correspondence Renee Street Typed or Printed Name of Person Signing Certificate Typed or Printed Name of Person Mailing Certificate \*This certificate may only be used if paying by deposit account. Dated: January 4, 2006 Signature Robert M. Gould Reg. No. 43,642 Cust. No. 29190

CC:

#### THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Botvinnik et al. Appl. No.: 10/774,579

Conf. No.: 9762

Filed: February 9, 2004

Title: ELECTROSTATIC PRECIPITATORS WITH INSULATED DRIVER

**ELECTRODES** 

Art Unit: 1724

Examiner: Chiesa, Richard L.

Docket No.: 112440-714

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 37 C.F.R. 1.97, and 37 C.F.R. 1.98, Applicants request that a citation and examination of the references cited below, and on the attached PTO-1449 form be made during the course of examination of the above-identified application for United States patent. Some of these references were cited in a Search Report from the corresponding PCT application, a copy of which is enclosed. Pursuant to 37 C.F.R. 1.98, copies of all foreign patent documents and non-patent documents are enclosed.

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Applicants look forward to early and favorable consideration of this matter.

Respectfully submitted,

BELL, BOYD & LLOYD, LLC

Y / CO7/1

Robert M. Gould

Reg. No. 43,642

Customer No. 29190

Dated: January 4, 2006

# OIPE

### INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Atty Docket No.	Application No.
112440-714	10/774,579
Applicant	
Botvinnil	c et al.
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ý			TENT DOCUMENT	S	<del>r</del> -	1
Examiner's Initials	Document Number	Publication Date	Inventor	Class	Subclass	Filing Date If Appropriat
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	3,988,131		Kanazawa et al.			
	4,007,024	02/08/1977				<u> </u>
	4,056,372	11/01/1977				-
	4,070,163	01/24/1978				
	4,074,983	02/21/1978				
	4,097,252		Kirchhoff et al.			1
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	4,147,522		Gonas et al.			
	4,155,792	05/22/1979	Gelhaar et al.			
	4,171,975		Kato et al.			
	4,185,971	<del></del>	Isahaya			
	4,189,308		Feldman			
	4,205,969		Matsumoto			
	4,218,225	08/19/1980	Kirchhoff et al.			
	4,225,323		Zarchy et al.			
	4,251,234	02/17/1981	Chang			
	4,259,093		Vlastos et al.			
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	4,289,504	09/15/1981	Scholes			
	4,293,319	10/06/1981	Claassen, Jr.			
	4,308,036	12/29/1981	Zahedi et al.			
	4,315,188	02/09/1982	Cerny et al.			
	4,338,560	07/06/1982	Lemley			
	4,349,359	09/14/1982	Fitch et al.			1

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Examiner's	Document	Publication				Filing Date
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						Appropriate
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	4,354,861	10/19/1982	Kalt			
	4,362,632	12/07/1982	Jacob			
	4,363,072	12/07/1982	Coggins			
	4,366,525	12/28/1982	Baumgartner			
	4,369,776	01/25/1983	Roberts			
	4,375,364	03/01/1983	Van Hoesen et al.			
	4,380,900	04/26/1983	Linder et al.			
	4,391,614	07/05/1983	Rozmus			
	4,394,239	07/19/1983	Kitzelmann et al.			
	4,405,342	09/20/1983	Bergman			
	4,406,671	09/27/1983				
	4,412,850		Kurata et al.			
	4,414,603	11/08/1983				
	4,435,190	03/06/1984				
	4,440,552	04/03/1984				
	4,443,234	04/17/1984				
	4,477,268	10/16/1984		·		
	4,481,017	11/06/1984		-		
	4,505,724	03/19/1985		•		
	4,514,780	04/30/1985				
	4,515,982		Lechtken et al.		1	1
	4,521,229	06/04/1985				<del> </del>
	4,522,634	06/11/1985				<del> </del>
	4,534,776	08/13/1985	<del>                                     </del>			<del>                                     </del>
	4,544,382	10/01/1985		<del></del>		<del> </del>
	4,555,252	11/26/1985				<del> </del>
·	4,569,684	02/11/1986		-		
	4,582,961		Frederiksen			
	4,588,423	05/13/1986	Gillingham et al.			
	4,590,042	05/20/1986	Drage			· · · · · · · · · · · · · · · · · · ·
	4,597,780	07/01/1986	Reif			<del></del>
		07/01/1986				
	4,597,781		Spector			
	4,604,174		Bollinger et al.			-
	4,614,573	09/30/1986	<del></del>			
	4,623,365	11/18/1986				
	4,632,135		Lenting et al.			-
	4,632,746	12/30/1986				<del> </del>
	4,636,981	01/13/1987				
	4,643,744	02/17/1987	Brooks			
	4,647,836	03/03/1987	Olsen			
	4,650,648	03/17/1987	Beer et al.			
l	4,656,010	04/07/1987	Leitzke et al.			

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<sup>\*</sup>Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw-line-through-citation-if-not-in-conformance-and-not-considered. -Include-copy-of-this-form-with-next-communication to applicant.

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112440-714		10/774,579
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Examiner's	Document	Publication	ATENT DOCUMENTS	<u></u>		Filing Date
Initials	Number	Date	Inventor	Class	Subclass	Ĭf
	4 (55 500)	0.1/1.1/1.007				Appropriate
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	4,662,903		Yanagawa			
	4,666,474		Cook			
	4,668,479		Manabe et al.			
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	4,680,496		Letournel et al.			
	4,692,174		Gelfand et al.			
	4,691,829		Auer			
	4,693,869		Pfaff			
	4,702,752	10/27/1987	Yanagawa			ļ
	4,713,092		Kikuchi et al.			
	4,715,870		Masuda et al.			
	4,725,289	02/16/1988				
	4,736,127	04/05/1988				
	4,743,275	05/10/1988				1
	4,749,390		Burnett et al.			
	4,750,921	06/14/1988	<del>                                   </del>			
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	4,760,303	07/26/1988				
	4,765,802	08/23/1988	Gombos et al.			
	4,771,361	09/13/1988	Varga			
	4,822,381	04/18/1989	Mosley et al.		İ	
	4,853,005	08/01/1989	Jaisinghani et al.			
	4,869,736	09/26/1989	Ivester et al.			
	4,892,713	01/09/1990	Newman		<u> </u>	
	4,929,139	05/29/1990	Vorreiter et al.			
	4,940,894	07/10/1990	Morters			
	4,941,224	07/17/1990	Saeki et al.			
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	4,954,320	09/04/1990	Birmingham et al.			
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	5,003,774	04/02/1991	Leonard			
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	5,022,979	06/11/1991	Hijikata et al.			
	5,030,254	07/09/1991	Heyen et al.			

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<sup>\*</sup>Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; -Draw-line-through-citation if not in conformance-and-not-considered. - Include copy of this form with-next communication to applicant.

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Examiner's	Document	Publication	TENT DOCUMENTS	1		Filing Date
Initials	Number	Date	Inventor	Class	Subclass	If Appropriate
	5,043,033 A	07/23/1991	Alsup et al.			rippropriate
	5,037,456		Yu	<u> </u>		
	5,045,095		You			<del></del>
	5,053,912 A		Loreth et al.			<del> </del>
	5,059,219		Plaks et al.			
	5,061,462		Suzuki			
	5,066,313		Mallory, Sr.			
	5,072,746		Kantor			
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	5,125,936	06/30/1992	Johansson			
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	5,137,546		Steinbacher et al.			
	5,141,715	08/25/1992	Sackinger et al.			
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	5,154,733	10/13/1992	Fujii et al.			
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	D332,655 S	01/19/1993				
	5,180,404 A	01/19/1993	Loreth et al.			
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	5,308,586		Fritsche et al.			
	5,330,559	07/19/1994				
	5,348,571	09/20/1994				
	5,376,168	12/27/1994	<del></del>			
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	5,395,430		Lundgren et al.			
	5,401,301	03/28/1995	Schulmerich et al.			

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Examiner's	Document	Publication	TENT DOCUMENTS			Filing Date
Initials	Number	Date	Inventor	Class	Subclass	If Appropriate
	5,401,302	03/28/1995	Schulmerich et al.			Горрания
	5,403,383		Jaisinghani	<del> </del>		
	5,405,434		Inculet	-		
	5,407,639		Watanabe et al.			
	5,407,469	<del></del>	Sun			
	5,417,936		Suzuki et al.			
	5,419,953		Chapman			
	5,433,772		Sikora			
-	5,435,817 A		Davis et al.			
	5,435,978		Yokomi			
	5,437,843		Kuan			
	5,445,798		Ikeda et al.			
	5,466,279		Hattori et al.			
	5,468,454		Kim			
	5,474,599		Cheney et al.			
	5,484,473	01/16/1996				
	5,492,678	02/20/1996	<u> </u>			
	5,501,844		Kasting, Jr. et al.			
	5,503,808	04/02/1996	<del></del>			
	5,503,809	04/02/1996	Coate et al.			
	5,505,914	04/09/1996	Tona-Serra			
	5,508,008	04/16/1996	Wasser			
	5,514,345	05/07/1996	Garbutt et al.			
	5,516,493	05/14/1996	Bell et al.			
	5,518,531	05/21/1996	Joannu ·			1
	5,520,887	05/28/1996	Shimizu et al.			
	5,525,310	06/11/1996	Decker et al.			
	5,529,613	06/25/1996	Yavnieli			
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	5,536,477	07/16/1996		•		
	5,538,695		Shinjo et al.			
	5,540,761	07/30/1996	Yamamoto	<u> </u>		
	5,542,967	08/06/1996	Ponizovsky et al.			
	5,545,379	08/13/1996	Gray			
	5,545,380	08/13/1996	<del></del>			
	5,547,643		Nomoto et al.			
	5,549,874		Kimiya et al.			
	5,554,344	09/10/1996				
	5,554,345		Kitchenman			
	5,569,368	10/29/1996	Larsky et al.			
	5,569,437		Stiehl et al.			
	5,571,483	11/05/1996		· ·		

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Examiner's	Document	Publication	TENT DOCUMENT	3		Filing Date
Initials	Number	Date	Inventor	Class	Subclass	If
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	D375,546 S	11/12/1996	1			
	5,573,577	11/12/1996	<del></del>			ļ
	5,573,730		Gillum			
	5,578,280	11/26/1996				
	5,582,632	12/10/1996				
	5,587,131	<del></del>	Malkin et al.			ļ
	5,591,253	<del></del>	Altman et al.			
	5,591,334		Shimizu et al.			-
	5,591,412		Jones et al.			
	5,593,476		Coppom			<del> </del>
	D377,523 S	01/21/1997	Marvin et al.			ļ
	5,603,752		Hara			
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	5,614,002		Chen			
	5,624,476		Eyraud			<del></del>
	5,630,866		Gregg			ļ
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	5,637,198		Breault			
	5,637,279		Besen et al.			
	5,641,342 A	06/24/1997	Smith et al.	*** *** ***		
<u>i</u>	5,641,461		Ferone			<u> </u>
	5,647,890	07/15/1997	Yamamoto			
	5,648,049		Jones et al.			
	5,655,210		Gregoire et al.			
	5,665,147		Taylor et al.			
	5,667,563	09/16/1997	Silva, Jr.			
	5,667,565	09/16/1997	Gondar			
	5,667,756		Но			
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	D389,567 S	01/20/1998	Gudefin			
	5,766,318 A		Loreth et al.			
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	6,090,189 A	07/18/2000	Wikstrom et al.			
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	5,484,472 C1	02/20/2001	Weinberg			
	6,203,600 B1	03/20/2001	Loreth			1
	6,251,171 B1	06/26/2001	Marra et al.			

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Examiner's	Document	Publication	<b>T</b>	C1	0.1.1	Filing Date
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	6,506,238 B1	01/11/2003	Endo			
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	6,635,105 B2		Ahlborn et al.			
	6,672,315 B2		Taylor et al.			<del> </del>
	6,709,484 B2	03/23/2004				
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	6,735,830 B1	05/18/2004				
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	6,768,110		Alani			
	6,768,120		Leung et al.		-	
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	6,785,912	09/07/2004	Julio			
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	6,794,661	09/21/2004	<del></del>			
	6,800,862	10/5/2004	Matsumoto et al.			
	6,803,585	10/12/2004	<del></del>			
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	6,812,647	11/02/2004	<del></del>	ļ		ļ
	6,815,690	11/09/2004				
	6,818,257		Amann et al.			<u> </u>
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	6,819,053	11/16/2004				
	6,797,339	09/28/2004				<u> </u>
	6,797,964	09/28/2004	Yamashita			<b></b>
	6,799,068	09/28/4002	Hartmann et al.		<u> </u>	

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		U.S. PA	TENT DOCUMENTS	3		
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Examiner's	Document	Publication				Translation	
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(Use several sheets if necessary)

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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw\_line\_through\_citation\_if not in\_conformance-and-not-considered. -Include copy-of this-form with-next-communication to applicant.

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